

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Peter Zenker <100743.3320@CompuServe.COM>
Subject: [10052] Appel de France
Message-ID: <960619132907_100743.3320_EHV160-1@CompuServe.COM>

This mssg i got via hamnet. I post it here fore those on the list who dont read hamnet and are interested.
The senders e-mail is 101511.3616@compuserve.com

WEITERGELEITETE NACHRICHT - vom: 17-Jun-96 18:11
Betreff: Appel de France - Nachricht #467659
Von: Clarencon D. F6GNK 101511,3616
An: all
Forum: HAMNET Bereich: 15 - QRP/Low Power

Hello from France

I will go to USA on july 13-18 for my work (biological conference in UCLA)
I hope to have some free time to meet QRP OMs in Los Angeles, see home
made equipment or go in ham shops

I am looking for any information from californian OMs for the preparation
of my treep

Thanks

Didier F6GNK
member of NORCAL and of G-QRP club

Bonjour de France,

Je dois aller aux USA (Los Angeles) entre le 13 et le 18 juillet pour mon
travail (conference biologique a l'UCLA)

J'espere avoir un peu de temps libre pour rencontrer des Oms QRP, voir du
materiel fait maison et aller dans des magasins de radio

Je recherche des informations aupres des OM californiens pour preparer mon
voyage

Merci

E-mail von: Peter Zenker, 19-Jun-1996

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: GREGOIRE@ENDOR.COM (ERNEST GREGOIRE)
Subject: [10072] APPOLOGY,AND THANKS QRP+ FILE
Message-ID: <199606192325.TAA77889@nss2.CC.Lehigh.EDU>

Hello Gang,

I appologize for attatching a file to the text posted here a couple of days ago. I intended to be helpful by posting the RF gain mod and did not try to offend anyone.

Thank you to all those that sent me mail graciously informing me how to properly do the post. There was only one flame from an over worked net cop who prided himself on his harsh words. To him I say,"God bless you sir, I'll keep you in my prayers".

Meanwhile, back at the ranch, a very helpful ham offered to post the mod for me at QRP-L site. Thank you very much sir,I'll take you up on the offer,and send you an off reflector note. Your help is sincerly apperciatiated.

73 de
AA1IK
Ernie

de AA1IK N.E.-QRP-C. # 202 (Lead by example, It is better to)
 QRP-L member #95. (pull a string than it is to push it.)
Ernie Gregoire
RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@ENDOR.COM
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: lhalliday@creo.bc.ca
Subject: [10060] Class F amplifiers
Message-ID: <9605198352.AA835202331@mail.creo.bc.ca>

On return from my recent European trip I found the May issue of RF Design waiting for me, including an article on Class F amplifiers. These are an enhancement of Class D amplifiers, which are extremely efficient - as long as the transistors can switch fast enough. The necessary switching speeds are difficult to achieve at higher frequencies, so a Class F amplifier adds tuned circuits to the output to emphasise harmonics, resulting in a better approximation to a square wave in the output circuit and improved efficiency. I wonder if this might be just the ticket for cheap, highly efficient radios for the higher HF bands once we start getting sunspots again...

Another item that I found fascinating was my first encounter with smart card technology, thanks to a France Telecom phone card. When I saw an ad in Electronique Pratique for an outfit that sold unprogrammed smart cards - with documentation - I immediately made a beeline for the 10th Arrondissement and bought one. The obvious application is favourite frequency memory for computer controlled radios (so much more convenient than plugging in EEPROM chips!), but I'm sure I can find other uses for these fascinating devices.

Laura Halliday VE7LDH
lhalliday@creo.bc.ca
ve7ldh@amsat.org
Locator: CN89mg

"C'est une femme mutine, assez
elegante, grave et legere, ayant le
sens du confort et du plaisir
en tout." - C. Deneuve

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: msdooley@rdxsunhost.aud.alcatel.com (Michael S. Dooley)
Subject: [10055] DX on 30
Message-ID: <9606191402.AA03261@collie.aud.alcatel.com>

Hey,

Did anyone hear LZ1LZ on 30 Monday night about 10 PM central time? She was sending much faster than I can copy easily, but I think the ops name was Sofia and my map shows LZ as Bulgaria. Anyone else hear her? she was working a pileup.

Mike KE4PC

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Brad Mugleston <bmug@gwl.com>
Subject: [10064] Field Day
Message-ID: <199606191847.AA05839@gp-nixon.gwl.com>

Field day is almost here, Field day is almost here, Field day is almost here. I get to go out and play radio in the woods. Yah-Hoo!!!

The Colorado QRP Club (CQC) will be hosting a site for field day - and IMHO there will be a GREAT Novice/Tech station operating there.

We will be using my call KBØROL and will operate on all novice bands from 80M through 1.25cm. We will be on from Noon Saturday until they drag our dead bodies out the the trees Sunday.

We will be out in the rolling plains south east of Denver (go south to Franktown and hang a left). This use to be an area where there were rolling planes but the air traffic has change from when I use to fly there so no more planes but lots of plains and trees and this weekend antennas.

Check in This weekend and talk to Brad or Ron or Dale or Richard or Dale (#2) or maybe even Sean - If my 6 year old makes it down you might hear Audrey calling on the Voice bands - give her a shout.

See ya then,

de KBØROL, Brad 2A Colorado

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [10065] Field Day - Novice/Tech stations
Message-ID: <199606191905.MAA18272@dancris.com>

Thanks to Bill (KC1GS) we have a pretty good list of Field Day stations, but not much on Novice/Tech stations.

TRIARC is going to be operating a novice/tech station, using call N7XJW, and would like to have the calls/locations of others to watch for. I'm pretty sure we will be operating mostly 10 SSB, but some have expressed interest in 40 CW.

We will be in the White Mountains of Arizona, near Heber. If you or your club is going to be operating novice/tech, please send me your call/location. If you think the rest of the list might be interested, send it to them as well.

Thanks,

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any order of importance!)

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: talljazz@teleport.com (Dan Presley)
Subject: [10051] FS MFJ 901 tuner &Heath SWR &keyer
Message-ID: <v01530502aded5e6edbe7@[206.163.121.104]>

Too many goodies! I have for sale the following all in very good condition:
MFJ 901 Versa tuner-this is the smallest one they make; will tune all types
of antennas-coax, random wire & open wire line. A perfect mate for the
small MFJ radios-\$40.00

Heath HM 102 SWR/Power meter (with remote sensor)good for the QR0 type
station-\$45.00

Heath HD-1410 Electronic Keyer-built-in paddles. Also modified to accept
other paddles.110 AC or 12 v, with manual. \$40.00

All 3 for \$100.00!!!
Dan N7CQR (503) 232-5346-E-Mail talljazz@teleport.com

(have to pay for that new Gap antenna!)

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: JCoote@aol.com
Subject: [10077] Help with Tektronics 492BP and 492
Message-ID: <960619204011_417715030@emout08.mail.aol.com>

I have obtained some very nice looking but dysfunctional spectrum analyzers,
Tektronics 492 and 492BP.

I would like to know:

1. How to get the covers off the bloody things so I can work on them.
2. Tektronics publications (manuals) phone number and email address.
3. Places in Southern California (not the factory!) who will work on them cheap.

Thanks...

73, Jay
WB6AAM

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: ea4aon@ea4rct.clubs.etsit.upm.es
Subject: [10068] info QRP in U.S.A. pse !!!
Message-ID: <43357@ea4rct.clubs.etsit.upm.es>

Hello everyone. I'm looking information about comercial transceivers, kits and qrp catalogs. If you know something, please send me adress for obtain the catalog, and price outside USA.

Very thanks....Javi

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Doug Hendricks <ki6ds@mail-01.telis.org>
Subject: [10058] KI6DS away for FD
Message-ID: <31C78D1B.5024@telis.org>

[Original Subject: KI6DS on Vacation. The list server thought it was an automated "vacation" message and rejected it. Sorry Doug! - N3VXI]

I will be away from the computer for 5 days starting on Weds. morning. I am taking a few days off to go to the Zuni Loop for Field Day. I can't wait to get there and renew friendships with all the guys. It will be an exciting group this year, with Cam Hartford, Rich Fisher, Fred Turpin, Rob, Bill Young, Jerry Parker (NorCal Webpage Meister), Rich Arland, Wayne Burdick, Bob Heusser, Tom Brown, Charlie Lofgren, Paul Carreiro, Tony, Bob Dyer, John Kitchen, Keith Clark, John Dundas and others I have probably missed.

I am going down early to help stake out the campground, and I will return on Monday. I plan on operating 20 and 75M phone. I want to get a 3 wavelenth per leg rhombic up, so that we can be heard on the East coast this year. Using 7 5.6ohm 2 Watt Carbon resistors in parallel for the 800 ohm noninductive termanating resistor. Hope to work you under the call N6GA. Rigs I will be using are the Cascade and the Epiphyte. I will take pictures and hope to be able to put them on the NorCal Web Page.

72, Doug
KI6DS

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: ea4aon@ea4rct.clubs.etsit.upm.es

Subject: [10069] looking for IC:82S90 !!!
Message-ID: <43360@ea4rct.clubs.etsit.upm.es>

Hello, I'm looking this IC of a frecuencimeter SIMPSON MODEL 710. I written to the factory but no answer me. Please if you know it send me a message.

thank you.... Javi

the IC is-----> " 82S90 "

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Dean Marzocca <n2tnn@ifu.net>
Subject: [10073] member number
Message-ID: <31C8909F.7B72@ifu.net>

Ok,

Whats all this about a number. I got a verrry long random generated password number when I subscribed. Is that MY membership number??? If not then point me in the right direction. HiHi

72, Dean

--

%%	"Life is too short so you better start having dessert	%%
%%	long before dinner is over."	%%
%%	"HAM IT UP" via Barneget Bay, New Jersey	%%
%%	N2TNN FN20, Somerset, NJ or 10 meter MM	%%

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Marshall Emm <75230.1405@CompuServe.COM>
Subject: [10067] OHR 400 Filter Bandwidth Mod
Message-ID: <960619195723_75230.1405_HHB70-1@CompuServe.COM>

The IF filter bandwidth on the 400 is very narrow, and I was finding it awkward to work with-- often I'd miss a signal because I tuned across it between words.

I called Dick at OHR and he said that while the actual numbers printed in QST don't look right , it's true that the audio filter bandwidth is very close to the IF filter bandwidth, and its main purpose is to get rid of anything getting into the RF or audio path after the IF filter.

Dick suggested that modification of the IF bandwidth was just a matter of

playing around with the shunt caps and suggested a couple of possibilities. The mod worked so well I thought I'd pass it on. I don't have anything to test it with apart from my ear, but the result is that the passband is wide enough now that I can tune the rig much more comfortably, without being "too" wide. And if things get crowded, the switchable audio filter is effective in reducing the audible bandwidth to what it was before. Have to admit I wasn't too worried because I also use the OHR Switched Capacitor Filter with whatever rig I'm using; it's damned near as good as DSP and a lot easier to use.

Anyhow, if you do this mod and like it, let Dick know-- he's always prepared to consider enhancements.

Here's the IF filter bandwidth mod: On the receiver board, locate C204 (560pF). At the back edge of the board (looking from the front of the rig) you'll see an array of four crystals surrounded and separated by five caps:

C202 Y200 C203 Y201 *C204* Y202 C206 Y205 C205

Remove C204 (the ground side is in a plated-through hole, so you may need to use your solder wick on both sides of the board). Note that you can unscrew the receiver board and flip it over (carefully) without disturbing any of the connecting wires.

Replace with a 470pF NP0 (or COG) cap of appropriate size. Don't worry about an exact fit-- the intention is to reduce capacitance by "a bit;" any added stray capacitance due to lead length will probably not be noticeable).

To widen the bandwidth further, replace C203 and C206 with 330pF NP0s. I didn't do this part, but since Dick suggested it I thought I'd pass it along.

73/72

Marshall

AA0XI/VK5FN

PS-- It's a nice rig. Anybody want to buy one? Or any of the other OHR kits? Missed out on the group purchase? Call me on 303-752-3382

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996

From: George Gingell <k3tks@u1.abs.net>

Subject: [10066] QRP FD 1 C QRP

Message-ID: <Pine.BSI.3.93.960619150359.3778D-1000000@u1.abs.net>

Just a quick note to add K3TKS/QRP to the Field Day List.

It looks like I will be 1 C QRP Mobile again this year, unless

I get one more "Maryland Milliwatter" to go with me.

2 C QRP Mobile is a Class of its own.

Sure makes it easier to find the results in QST. :-)

I will use the QRP Plus and Hamsticks on the trunk again.

The NC40A (Wilderness Radio Version) and Sierra (40 only)

will be backup rigs. Also hoping to find time to Throw the St. Louis

Antenna Tuner together this week. Can always use that and the big

roll wire with slingshot and sinkers for long wire into the trees

when we hit a rest stop. Anyone know where to find some cheap

balloons and gas? :-) :-)

Good Luck to all.. 72 es 73

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996

From: Peter Zenker <100743.3320@CompuServe.COM>

Subject: [10070] QRP TXVR from Poland

Message-ID: <960619225813_100743.3320_EHV101-1@CompuServe.COM>

Hello QRPers,

I just put the technical descriptions of a new QRP txvr from Poland, imported by a German OM on the WEB site of DL0AQB. It is an all Z80 controlled all band 4-Watt txvr. For all those who didnt see the still available older model (including 1mW TX for 50 MHz and 1mW TX for 144 MHz I made a second page for this.

You find the descriptions under

http://ourworld.compuserve.com/homepages/Peter_DL2FI

QRP TXVR

Digital96 and Digital942

72 de Peter, DL2FI

E-mail von: Peter Zenker, 20-Jun-1996

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996

From: Doug Hendricks <ki6ds@mail-01.telis.org>

Subject: [10050] QRPp Not Here Yet
Message-ID: <31C78E68.3265@telis.org>

The printer called Thursday and said that he was shipping the first wave of QRPP for June. They did not arrive today, and I am leaving early tomorrow for Zuni Loop and Field Day. This means that I will start processing them on next Tuesday when I return. Thank you for your patience. I did receive an advance copy today, and the cover is spectacular if I do say so myself. It is not anything that I did. The cover features an original drawing of Riley, NM when we were there for QRP to the Field. It features the aeronautical mobile flying over the townsite. It was drawn by Jason Miller, who is 17 years old and is a licensed ham. He is the eldest son of Jay Miller, WA5WHN, who is a member of this list. Jason is a very talented artist, as you will see when your copy arrives. 72, Doug, KI6DS

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: weinfurtner@ouvaxa.cats.ohiou.edu (Greg Weinfurtner)
Subject: [10056] Tektronics 5111 info
Message-ID: <v01510100adedb0237fef@[132.235.72.11]>

Gang,

I just acquired a Tektronics 5111 O'scope with a "Visipitch" plug-in module. It was used for language students so they could see pitch and intensity of the words they were speaking(into a microphone) on the lower trace. It would display a trace for 1,2,4 or 8 seconds and the student would try to emulate the top trace that had been spoken by the instructor.

This function is pretty useless for any ham applications that I can see.

I've tried to find Tek info on the WWW, but have had no luck. Our club station, W8PZS, needs a good scope! (I'm the club advisor)

Question: Can another plug-in module be purchased that would make this into a usable o'scope?

[illegible]

```

*           Amateur Radio           that they may go and say unto  *
*                                     thee, 'Here we are'? Job 38:35  *
*   weinfurtner@ouvaxa.cats.ohiou.edu                                     *
*   http://ouvaxa.cats.ohiou.edu/~weinfurtner                             *
*****

```

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
 From: weinfu@w8dc.#swmi.mi.usa.noam
 Subject: [10080] Tektronics 5111 info
 Message-ID: <23373_WEINFU@w8dc.bbs>

R:960620/0314z @:W8DC.#SWMI.MI.USA.NOAM [GR, MI] #:24276 \$:23373_weinfu Z:49504

Gang,

I just aquired a Tektronics 5111 O'scope with a "Visipitch" plug-in module. It was used for language students so they could see pitch and intensity of the words they were speaking(into a microphone) on the lower trace. It would display a trace for 1,2,4 or 8 seconds and the student would try to emulate the top trace that had been spoken by the instructor.

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*****
*                                     Greg Weinfurtner AEE BSS  *
*   NN      N      SSSSSSS  8888888  0000000  Electronic Design Splst  *
*   N N     N      S      8      8  0      0  Ohio University  Athens  *
*   N N     N      SSSSSSS  8888888  0      0  GO BOBCATS!             *
*   N      N N      S      8      8  0      0                               *
*   N      NN      SSSSSSS  8888888  0000000                               *
*                                     Can thou send forth lightnings  *
*           Amateur Radio           that they may go and say unto  *
*                                     thee, 'Here we are'? Job 38:35  *
*   weinfurtner@ouvaxa.cats.ohiou.edu                                     *
*   http://ouvaxa.cats.ohiou.edu/~weinfurtner                             *
*****

```

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [10078] The right-angle delta loop, part 2
Message-ID: <Pine.SOL.3.91.960619212940.6633A-100000@utkux4.utcc.utk.edu>

Follow-up on the right-angle upright delta loop, side fed

I did a little more work on the right angle delta loop as a superior vertical radiator on 40 to the equilateral delta loop. As you recall, the right angle loop is shorter by about 10' than the equilateral loop, allowing it to be higher by that amount for a constant height top support. That is advantage number one. The second advantage is a closer match (depending upon the height of the horizontal base wire) to 50 or 75 ohm coax. The third advantage is somewhat less sensitivity to the position of the feedline along the sloping wire. And the fourth is somewhat greater gain at the angle of max radiation in that flattened vertically polarized pattern prized by dxers.

The exact length of a right-angle delta depends on height. With the base at 35' and the apex at 65.4', the length at 7.15 MHz is about $1050/f$ or 146.8', with the sloping sides 43' long each and the base 60.8' long horizontally. With the base only 10' above ground, and the apex 40.2' high, the sloping sides are 42.8' each and the base is 60.6' long, for a total of 146.2' of wire, or $1045/f$ at 7.15 MHz.

At the higher level, you can feed the sloping wire anywhere from 2% to about 25% along the wire (but not at the bottom corner) with little change in gain or input impedance. Both stay constant: gain 1.96 dBi; T0 angle 16 degrees; $Z = 49.3$ to 51.4 ohms with less than 1 ohm reactance (in the model, which has no ground clutter). However, the least horizontal radiation occurs between 12 and 15 degrees along the wire--the 6' from the bottom corner region. (For comparison, the equilateral delta had a gain of about 1.4 dBi, with a T0 angle of 15 degrees, and a 100-ohm feedpoint Z.)

With the base only 10' off the ground and ignoring ground clutter (which a real antenna builder cannot do), the region of constant performance extends from about 4% to about 20% along the sloping wire, with the least horizontal radiation in the 13 to 16% range, again in the 6 to 7' from the corner vicinity. Gain is about 1.54 dBi, T0 angle is 23 degrees, and feedpoint impedance is 77.5 to 79 ohms with negligible reactance. (For comparison, the equilateral delta with a 10' high base wire has a gain of about 1.12 dBi, a T0 of 21 degrees, and a feedpoint Z of about 160 ohms.) The lower level right-angle delta loop is a better match for 75 ohm coax, but 50 ohm coax will show

only about a 1.4:1 SWR, meaning insignificant loss from mismatch.

The reason to use the feedpoint position of least horizontal radiation is that on either side of the region of best vertical performance, a secondary higher angle lobe grows. It is not very significant, but it does permit high-angle QRM/QRN to increase. If you use this antenna at all, it will be for its low angle properties, not its gain, and you will want the best signal to noise ratio possible on weak dx signals. Decreasing high-angle input decreases domestic noise, whether QRM or QRN (although it will not eliminate the neighbor's table saw noise). Hence, getting the feedpoint up to the 13% mark or so is useful, but there is a +/- 2 to 3% region of virtually no difference in both the high and low versions (meaning the region is there at all intermediate levels for the bottom wire). You can also interpolate probable feedpoint impedance from these limiting figures.

All models were made over medium quality ground (Somerfeld-Norton analysis) with no ground radials, counterpoises, or other ground improvements. The delta loop needs no radials.

Like the equilateral delta, the right-angle delta is not a sterling performer on other bands, even when the feedpoint is moved to the center of the bottom wire or to the top apex, with quite high values of resistance and reactance on 30 meters, medium high values on the WARC bands, and useable numbers on the harmonics of 7 MHz. But it will do ok, especially on the uppermost HF bands, if the bottom wire is at least 20' up. 80 meters, of course, is out for any closed loop 40 meter antenna.

Remember: the loop gets a little smaller with smaller wire sizes (the opposite of linear elements that get smaller with fatter wire). And, unlike the equilateral loop that shows a small range of feedpoint Z change around the loop, the low Z values occur only along the sides. At the apex or at the center of the bottom wire, the Z goes to 200-250 ohm range on 40 meters.

However, the right-angle delta shines as a 40-meter 1 wl loop fed on the side with a close-to-coax Z for maximizing vertical performance and dx work.

Hope this data is useful.

-73-
LB, W4RNL

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Mike Robinson <miker@cc.com>
Subject: [10059] Who was that?
Message-ID: <9606191623.AA20885@voder.nsc.com>

Last night about 0400z I called CQ on 10.106
which I rarely do. Someone came back
but was very weak. All I could get over the
noise was N?

Was that anybody here?

```
=====
AA0UB  TMPS 1996 Qs=006 States=05 Confirmed=00 DX=01
CA DC LA OR SC
=====
7.3 de Michael AA0UB      miker@cc.com      michael@frii.com
      http://www.frii.com/~michael
      QRP-L #126      Norcal #857      CQC #180
=====
```

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [10061] RE: Class F amplifiers
Message-ID: <960619130102.25249968@carib.vf.mmc.com>

Laura, you wrote:

>On return from my recent European trip I found the May issue of RF
>Design waiting for me, including an article on Class F amplifiers.
>These are a enhancement of Class D amplifiers, which are extremely
>efficient - as long as the transistors can switch fast enough. The
>necessary switching speeds are difficult to achieve at higher
>frequencies, so a Class F amplifier adds tuned circuits to the output
>to emphasise harmonics, resulting in a better approximation to a
>square wave in the output circuit and improved efficiency. I wonder if
>this might be just the ticket for cheap, highly efficient radios for
>the higher HF bands once we start getting sunspots again...

I remember seeing an old RCA vacuum tube app note back in the 60's employing a
similar third harmonic tuned circuit technique to make a tube amplifier in
very high power broadcast transmitter switch with an approximate square wave
plate current. The handicaps they mentioned were (as I remember) that it
wasn't very broadband, and that it was very sensitive to reactance in the
antenna, but those difficulties should be easily handled. I'll have to check
out the RF Design when I get home.

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [10062] Re: Class F amplifiers
Message-ID: <Roam.3.0.835203982.13100.myers@bigboy>

Laura Halliday wrote:

> On return from my recent European trip I found the May issue of RF
> Design waiting for me, including an article on Class F amplifiers.
> These are a enhancement of Class D amplifiers, which are extremely
> efficient - as long as the transistors can switch fast enough. The
> necessary switching speeds are difficult to achieve at higher
> frequencies, so a Class F amplifier adds tuned circuits to the output
> to emphasise harmonics, resulting in a better approximation to a
> square wave in the output circuit and improved efficiency. I wonder if
> this might be just the ticket for cheap, highly efficient radios for
> the higher HF bands once we start getting sunspots again...

This is done using a quarter-wave line in conjunction with a resonant output circuit, right? The output matching section is connected to the power FET drain using a quarter-wave line. The output circuit presents a low impedance at harmonics of the operating frequency, and the quarter-wave line inverts this impedance for the odd harmonics.

I've wanted to try this at 6m or 2m for sometime; at lower frequencies, the quarter-wave line is way too long to be practical.

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: msdooley@rdxsunhost.aud.alcatel.com (Michael S. Dooley)
Subject: [10057] Re: DX on 30
Message-ID: <9606191447.AA03305@collie.aud.alcatel.com>

Scott, Al, and the group...

Looks like I REALLY need to brush up on my code speed P-)...!! because:

Al, N3KFL, sez:

> I've worked LZ1LZ a couple of times in the past and believe that "she" is
> a he. Sofia is the capitol of Bulgaria.

and Scott, NF3I, also sez:

> I kinda doubt the NAME was Sofia - Sofia is the capital city of Bulgaria.

Guess I shoulda copied a while longer 8-) !

Mike KE4PC

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: "Harvey D. D. Hetland" <HDHETLAND@paccd.cc.ca.us>
Subject: [10063] Re: DX on 30
Message-ID: <48144B66E10@manage.paccd.cc.ca.us>

> Did anyone hear LZ1LZ on 30 Monday night about 10 PM central time?

Oh, yes! He was very loud on the west coast. He was located in
Sofia, Bulgaria. I do not recall his name, but the Sofia you copied
was his QTH. No, I was not one of the deserving that worked him
with QRP.

73, Harvey, N6MM

TMPS 96: QSOs=127, WAS=39, DXCC=020 OHR 400, dipole at 45 feet.
States: HI AK OR WA NY CO SD CT WY CA KS LA OH GA PA MD AL NM FL OK
AZ WI KY TX ID NV IL IN WV TN MI NE MN NC NJ UT VA MA MS
DXCC: C2 JW KH6 JA KL7 A3 W 5W VE PJ2 T30 VK9N ZL FK8 OH OA VK FG LU
C6A

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Byron8LCZ@aol.com
Subject: [10074] Re: DX on 30
Message-ID: <960619194604_220907976@emout09.mail.aol.com>

In a message dated 96-06-19 10:55:39 EDT, you write:

>Hey,

> Did anyone hear LZ1LZ on 30 Monday night about 10 PM central time? She
>was sending much faster than I can copy easily, but I think the ops name was

>Sofia and my map shows LZ as Bulgaria. Anyone else hear her? she was
>working a pileup.

>
>Mike KE4PC
>
>
>

Sorry to disappoint you Mike, but LZ1LZ is Ken, he is in Sofia Bulgaria. He used to be a regular on 17m, before the band pretty much died. He's got a potent signal. Its good to see him on 30m. How long did you hear him before he fadded out ?

72, Byron WA8LCZ Detroit

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=====
WA8LCZ TMPS 1996 Qs=183 States=45 2X-QRP=27 QSL=12 DX=04 IOTA=1
AK AL AR CA CO CT DE FL GA IA IL IN KS KY LA MA ME MD MI MN MO MS NC
ND NE NH NJ NM NY OH OK OR PA RI SC SD TN TX UT VA VT WA WI WV WY
VE1LR 1W, VE2MJE, VE3RT, VE4AKI 4W, VE6GK 1W,
VE7AGI, VE9MSR, VA3CSJ
DX: N6GA, VE6GK, U5WF, AL7IK
SPECIAL EVENT STA: KR400DL, K96BAI OLYMPICS GA,
IOTA: NA083 K4GLU
=====
KENWOOD TS-450 GAP TITAN VERTICAL 5 WATTS OUT
=====
>HEARD 48 STATES
>WORKED 15 FROM QRP-L: K1LGQ KS4L KK5RO N6GA N7MOB WA9PWP
N9DD NN9K N0TFI KD0CA VE6GK AA1MI K5FO (950 mw) W03B (400mw) W1FMR (400mw)
>DX HEARD: 3B8 5N0 EA1 EU1YL F5 F6CNI G3 HA5 IK8 LZ1 OM2SA ON2FD OZ7C PY2
S58AL SP3EPK S51 YT7 YV1NX ZL1 ZL2 ZL4WA LZ1MR ZL2GH
=====
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From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Art Searle <asearle@netusa.net>
Subject: [10076] Re: DX on 30
Message-ID: <31C8C629.7EB6@netusa.net>

who wrote?
>
> Did anyone hear LZ1LZ on 30 Monday night about 10 PM central time?
> Note:

Their is another LZ and easier to work. Tonight at 23:10 I worked LZ1GC with

5 watts. He was very weak about 449 but he has great ears. He gave me a 579. His name is Stan in Karlovo and he's so weak he doesn't have a pileup. He was on 10,108.9.

Good Luck, de Art WU2K

WU2K TMPS 1996 Qs=031 States=0 Confirmed=0 DX=027
3B8,6W,6Y,8P,9H,9L,EA8,EI,ER,ES,EU,F,G,GM
KP4,I,HA,HC,HI,LA,LU,LZ,OK,OM,ON,SP,UR

--

72,73, de Art Searle, WU2K, Long Is., NY, ARRL Life Member
QRP-L #524, QRP ARCI #9123, NorCal pending, DXCC MX & CW HR
NRA Benefactor Life Member, NMLRA Life Member, AMA Life Member
NRA Certified Firearms Instructor, Dale Earnhardt Fan Club

From owner-qrp-l@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Jim Hydzyk <congress@magpage.com>
Subject: [10081] Re: DX on 30
Message-ID: <199606200319.XAA26024@alaska.magpage.com>

At 09:02 AM 6/19/96 CDT, you wrote:

>Hey,

> Did anyone hear LZ1LZ on 30 Monday night about 10 PM central time? She
>was sending much faster than I can copy easily, but I think the ops name was
>Sofia and my map shows LZ as Bulgaria. Anyone else hear her? she was
>working a pileup.

>

>Mike KE4PC

Hello Mike, Yep, worked the LZ1, EU7, lots of G's and Europe in general with the Alinco DX-70t at 5 watts and an 80 mtr dipole at 30 feet. Most contacts have been stable and RST's around 459 (even G2QT was 559 here @ 3W). Judging from all the e-mail and usenet traffic, there is a big difference into Europe from Delaware and north versus mid 4-land and south. Take off angle and refraction angles make it an easy haul during this point in the sunspot cycle from here.

If I was further south, I'd probably opt for verticals with a low take off angle or a hanging delta loop to work Europe. From here on 20M, my loop and dipole are not much different into western Euro, but the loop has a big advantage into eastern Euro and Russia.....the take off angle thing again.

72, Jim K3QIO Wilmington Delaware (look at the TMPS logs. Del. is seen fewer times than Hawaii and Alaska :)

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: WJ4PRandy@aol.com
Subject: [10071] re:Gap Antennas-Titan Vertical,etc.
Message-ID: <960619191607_333402026@emout16.mail.aol.com>

Well said, Stuart!!

All I can add is "what he said!!"

And... That "counterpoise loop" he referred to can be straightend out to extend away from the antenna...I did it with mine because I didnt have room for the "clothesline" loop at my installation. I only had to extend it about 18 inches to make it resonant on 40.

73,Randy, WJ4P

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: pcw12@ix.netcom.com (Phil Wheeler)
Subject: [10053] Re: Gap vertical
Message-ID: <199606190626.XAA00462@dfw-ix1.ix.netcom.com>

You wrote:

>

>I'd like to hear from people using the Gap verticals-particularly the Titan

>model.The ads claim no radials required-in fact they say will not improve

>performance (I find this hard to believe!) Also, that elevating the antenna

>will not improve the results.And of course, who has the best price on this

>antenna! What have been results particularly on 30 M? Any thoughts or

>comments appreciated.

>Dan-N7CQR

>

>

>Dan, I had a GAP Titan for a month. Concluded my location was not the best so I took it down and re-boxed it for future QTH. I ended up

selling it for about \$225 (was in new condition).

In my case (may be very unique, many folks have great success with the GAP antennas and the staff there is first-class), the GAP Titan did not meet my expectations. 20 meters was on a par with my 10/15/20/40 trap dipole. 40 meters was poorer than my dipole, and on a par with my G5RV. 75 meters...G5RV was MUCH superior.

NOW, that said, I must also say that my mounting location was NOT the best: base (radial plane) was 10 ft off the ground with my house and garage to the East (important, since I am on the West Coast). On top of my house might have been better, but is is a fairly heavy antenna and hoisting it up there was a tough challenge; besides GAP folks said it should work well where I had it: it did not.

GSP antennas have gotten great reviews (e.g., Kurt N. Sterba in Worldradio) and those are likely well-deserved. The design (I'm an EE) impressed me; the results, at my QTH, did not.

'Nuff said!

Phil W7UOX (ex-W6TUH)

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: KR4GL@aol.com
Subject: [10075] Re: Hamsticks for 30m:
Message-ID: <960619202857_333487302@emout13.mail.aol.com>

I have 4 Hamsticks.

I mounted the 40 meter one on the roof of my small car using a rooftop carrier and a RS ball mount. Hey it worked (ugly!).

It was only a matter of time before I drove into my garage before taking the 7 1/2 ft. tall antenna off using the quick release. The ball mount broke and the antenna bent around in the shape of an almost completed circle (more like the letter "C," actually.

So I put the car in reverse and backed out of the garage. Ball Mount broken in half at the plastic part. Hamstick back in the straight mode, ready for more QSO's.

I'm not sure you can actually break a Hamstick.

73 de KR4GL (discovering the joys of HF mobiling.

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: pcw12@ix.netcom.com (Phil Wheeler)
Subject: [10054] Re: OHR 400 information/ QRP trip report.
Message-ID: <199606190609.XAA13845@dfw-ix6.ix.netcom.com>

Jess, I echo your high regard for the OHR-400. Most recent QST (June) is very accurate...not a backpacking rig, but a very solid base unit.

I will likely remove its keyer and put it in my 49'er, and add a KC-1 (key plus freq counter); gotta jazz up my 49'er to compete with a local ham (KJ6GR, who has a keyer, paddles, tuning cap and speed control packaged with his)...hmmm, still need the paddles to spare <grin>.

I've also recently finished NC-40A/KC-1 combo (very nifty!) and have just ordered a Sierra plus KC-1 (truly a backpacking multiband rig).

I think I've built more qrp rigs than I have qrp contacts. Well, whatever works!

72...Phil W7UOX

From owner-qrp-1@Lehigh.EDU Wed Jun 19 23:04:33 1996
From: Paul Stroud <aa4xx@nando.net>
Subject: [10079] Re: QRP FD 1 C QRP
Message-ID: <31C8C31B.4CED@nando.net>

Danny,

Good luck with your mobile FD venture. We'll be listening for you from our FD site in the Blue Ridge Mountains of NC. Our call will be WJ4P.

72,
Paul